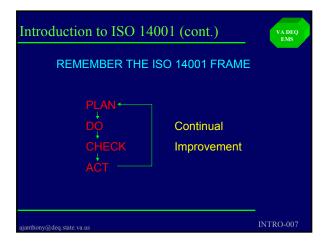
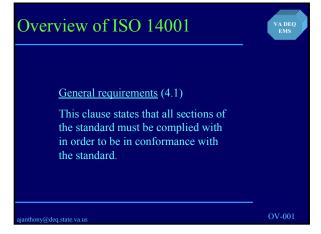


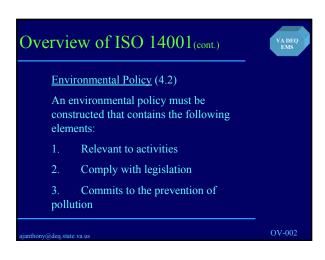


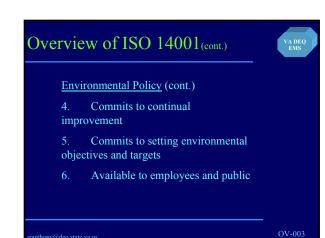
INTRO-004

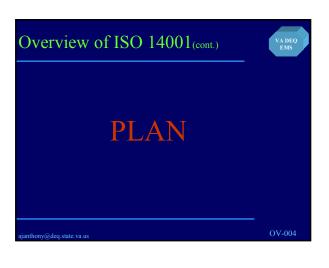
INTRO-003

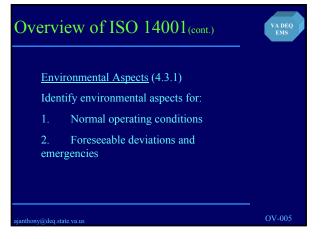












Overview of ISO 14001(cont.)



Legal and Other Requirements (4.3.2)

Identify the following:

- Legislation
- 2. Regulations
- Other restrictions

Overview of ISO 14001(cont.)



Objectives and Targets (4.3.3)

Environmental objectives and targets must be established which are consistent with the environmental policy.

DOCUMENTED

Overview of ISO 14001



Environmental Management Program (4.3.4)

- Programs for the achievement of objectives and targets must be established.
- Responsibilities designated.

OV-008

Overview of ISO 14001



IMPLEMENT

OV-009

Overview of ISO 14001(cont.)



Structure and Responsibility (4.4.1)

- Adequate resources and skills provided.
- Management representative assigned to operate and report.

DOCUMENTED



- Training, Awareness & Competence (4.4.2)
- Employees must be aware of environmental objective(s).

Overview of ISO 14001(cont.)

- Employees in area of responsibility must have appropriate training.
- Employees in the area of responsibility must be aware of consequences

Overview of ISO 14001_(cont.)



Communication (4.4.3)

- 1. System in place to receive and respond to communications with respect to environmental aspects.
- 2. Process for both internal and external communication.

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OV-012

Overview of ISO 14001(cont.)



Environmental Management System Documentation (4.4.4)

- 1. Documented description of the EMS that relates policy, objectives and targets, and responsibilities.
- 2. Must describe how to access associated documents.

DOCUMENTED

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OV-013

Overview of ISO 14001(cont.)



Document Control (4.4.5)

There must be a document control system.

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OV-014

Overview of ISO 14001(cont.)



Operational Control (4.4.6)

- 1. Documented procedures must be prepared when they are needed to insure conformance.
- 2. Suppliers and contractors informed of procedures.

DOCUMENTED

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OV-015

Overview of ISO 14001(cont.)



Emergency Preparedness and Response (4.4.7)

- 1. Foreseeable emergency situations must be identified, and procedures in place to respond.
- 2. Procedures tested periodically.

Overview of ISO 14001(cont.)



CHECK

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onv@dea state va us

Overview of ISO 14001(cont.)



Monitoring and Measuring (4.5.1)

- 1. Documented procedures for monitoring procedures.
- 2. Calibrated equipment.
- 3. Procedure for evaluating compliance with laws and regulations

DOCUMENTED

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OV-018

Overview of ISO 14001_(cont.)



Nonconformance and Corrective and Preventative Action (4.5.2)

Process in place for investigating and correcting nonconformance(s).

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OV-019

Overview of ISO 14001_(cont.)



Environmental Management

<u>Records</u> (4.5.3)

Record retention and archiving must be specified.

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OV-020

Overview of ISO 14001(cont.)



Environmental Management System Audit (4.5.4)

- 1. The EMS must be audited to insure it is operating as designed.
- 2. Audit results reported to management.
- 3. Nonconformance(s) must be addressed.

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OV-021

Overview of ISO 14001(cont.)



ACT

Overview of ISO 14001(cont.)



Management Review (4.6)

- 1. Review must occur, with emphasis on policy and objectives, to determine if EMS is still effective for organization's activities.
- 2. Review the need to modify all or part of the EMS due to changed conditions.

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OV-023

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OV-022

Overview of ISO 14001(cont.) REMEMBER THE FOLLOWING: 1. All sections are a "shall". 2. "Documented" is used sparingly, more is probably appropriate.

3. Continually evolving process -audits, corrections, and changing circumstances.

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OV-024

ISO 14001 Definitions



ISO 14001 DEFINITIONS

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DF-001

ISO 14001 Definitions (cont.)



The definition section of the ISO 14001 standard provides the foundation of the entire standard. They need to be understood is the standard is to be implemented.

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DF-002

ISO 14001 Definitions (cont...)



"3.1 -- Continual Improvement

Process of enhancing the environmental management system to achieve improvements in overall environmental performance in line with the organization's environmental policy. NOTE -- The process need not take place in all areas of activity simultaneously."

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DF-003

ISO 14001 Definitions (cont...)



Continual improvement in this usage applies only to the environmental management system. It does not directly apply to environmental performance. It is assumed that if the environmental management system is improved that environmental performance will also improve.

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ISO 14001 Definitions (cont...)



"3.2 -- Environment

Surroundings in which an organization operates, including air, water, land, natural resources, flora, fauna, humans, and their interrelation.

NOTE -- Surroundings in this context extend from within an organization to the global system."

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DF-005

ISO 14001 Definitions (cont..) Includes environment and natural resources, but does not require the inclusion of safety and industrial hygiene.

ISO 14001 Definitions (cont...)

VA DEQ EMS

"3.3 -- Environmental Aspect

Element of an organization's activities, products or services that can interact with the environment.

NOTE -- A significant environmental aspect is an environmental aspect that has or can have a significant environmental impact."

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DF-007

ISO 14001 Definitions (cont.)



DF-006

"Interact' -- positive, neutral or negative

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DF-008

ISO 14001 Definitions (cont...)



"3.4 -- Environmental Impact

Any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organization's activities, products or services."

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DF-009

ISO 14001 Definitions (cont...)



The combination of environmental aspects with the environmental impacts is the first step in establishing the significance of the environmental aspect.

ISO 14001 Definitions (cont..)



"3.5 -- Environmental Management System

The part of the overall management system that includes organizational structure, planning activities, responsibilities, practices, procedures, processes and resources for developing, implementing, achieving, reviewing and maintaining the environmental policy."

DF-01

DF-011

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ISO 14001 Definitions (cont...)



"3.6 -- Environmental Management System Audit

A systematic and documented verification process of objectively obtaining and evaluating evidence to determine whether an organization's environmental management system conforms to the environmental management system audit criteria set by the organization, and for communication of the results of this process to management."

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DF-012

ISO 14001 Definitions (cont...)



Checking to see if the EMS is being implemented properly at every appropriate level of the organization.

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DF-013

ISO 14001 Definitions (cont.)



"3.7 -- Environmental Objective

Overall environmental goal, arising from the environmental policy, that an organization sets itself to achieve, and which is quantifiable where practicable."

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DF-014

ISO 14001 Definitions (cont...)



Specific goals that must be set to implement the environmental policy.

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DF-015

ISO 14001 Definitions (cont...)



"3.8 -- Environmental Performance

Measurable results of the environmental management system, related to an organization's control of its environmental aspects, based upon its environmental policy, objective and targets."

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ISO 14001 Definitions (cont.)



DF-017

"3.9 -- Environmental Policy

Statement by the organization of its intentions and principles in relation to its overall environmental performance which provides a framework for action and for the setting of its environmental objectives and targets."

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ISO 14001 Definitions (cont...)



The entire environmental management system is designed to meet the commitments of the environmental policy. It provides the framework for setting the environmental objectives and targets.

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DF-018

ISO 14001 Definitions (cont...)



"3.10 -- Environmental Target

Detailed performance requirement, quantified where practicable, applicable to the organization or parts thereof, that arises from the environmental objectives and that needs to be set and met in order to achieve those objectives."

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DF-019

ISO 14001 Definitions (cont.)



Detailed performance requirement that arise from environmental objective. Must be measurable and quantifiable.

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DF-020

ISO 14001 Definitions (cont...)



"3.11 -- Interested Party

Individual or group concerned with or affected by the environmental performance of an organization."

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DF-021

ISO 14001 Definitions (cont...)



"3.12 -- Organization

Company, corporation, firm, enterprise, authority or institution, or part or combination thereof, whether incorporated or not, public or private, that has its own functions and administration.

NOTE -- For organizations with more than one operating unit, a single operating unit may be defined as an organization."

ISO 14001 Definitions (cont...)



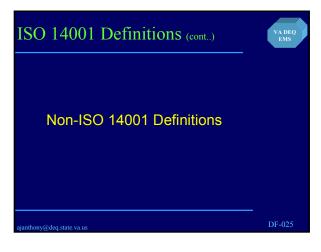
"3.13 -- Prevention of Pollution

Use of processes, practices, materials or products that avoid, reduce or control pollution, which may include recycling, treatment, process changes, control mechanisms, efficient use of resources and material substitution.

NOTE -- The potential benefits of prevention of pollution include the reduction of adverse environmental impacts, improved efficiency and reduced costs."

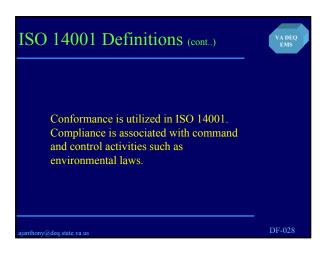
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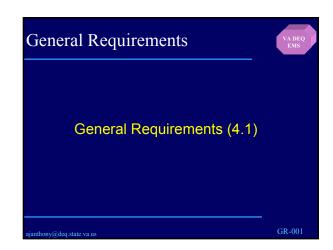
The organization must commit to review and utilize where appropriate the following prevention of pollution techniques -- recycling, treatment, process change, control mechanisms, efficient use of resources and material substitution.



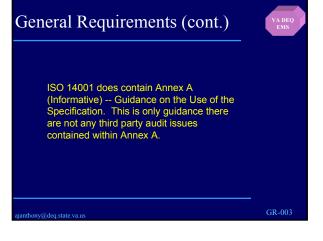


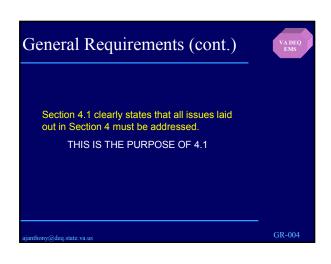


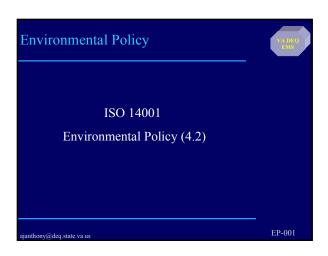


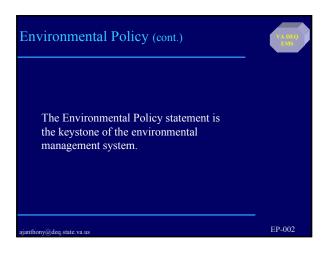


General Requirements (cont.) In order to be considered for compliance with the requirements of ISO 14001 every element of Section 4, Environmental Management System Requirements, must be addressed.











Environmental Policy (cont.)



Content requirements of the Environmental Policy statement:

- 1. Appropriate to organization's environmental impacts,
- 2. Provides framework for setting Environmental Objectives and Targets,
- 3. Commitment to continual improvement,

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EP-004

Environmental Policy (cont.)



Content requirements of the Environmental Policy statement: (cont.)

- 4. Commitment to prevention of pollution,
- Commitment to comply with environmental laws and regulations, and other requirements to which the organization subscribes,
- 6. Document and implement the Environmental Policy, and

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EP-005

Environmental Policy (cont.)



Content requirements of the Environmental Policy statement: (cont.)

7. Commitment to communicate the Environmental Policy to the Public.

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EP-006

Environmental Policy (cont.)



Appropriate...environmental impacts:

- 1. Every organization has unique interactions with and impacts on the environment.
- 2. Must demonstrate that it is fully aware of all relevant environmental issues and their potential impact and importance.

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EP-007

Environmental Policy (cont.)



Organization will need to review at a minimum the following:

- · its operation,
- pollutant emissions and releases,
- past environmental performance,
- · location,
- · land use activities,
- · sensitive environmental areas,

Environmental Policy (cont.)



Organization will need to review at a minimum the following: (cont.)

- environmental impacts from other organizations nearby,
- environmental legislation and regulation,
- · community stakeholder views,
- etc

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EP-008

Environmental Policy (cont.)



Framework...Objectives & Targets:

- Each Environmental Objective must be traceable back to the Environmental Policy statement.
- Every action, requirement, procedure, etc., must trace back to the Environmental Policy statement.

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EP-010

Environmental Policy (cont.)



Continual Improvement:

This issue focuses on the improvement of the environmental management system. The system must be reviewed at a set frequency for changed aspects and impacts.

Yearly

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EP-011

Environmental Policy (cont.)



Commitment to Prevention of Pollution:

Once Environmental Objectives have been established the only requirement is that prevention of pollution be evaluated as one of the alternatives.

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EP-012

Environmental Policy (cont.)



Commitment to comply...environmental laws & regulations:

- This statement is straightforward.
- 2. No clause in ISO 14001 requires unconditional compliance.
- 3. What is required?
 - Identify applicable laws and regulations,

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EP-013

Environmental Policy (cont.)



Commitment to comply...environmental laws & regulations: (cont.)

- b. decide whether in compliance or noncompliance,
- for those areas where noncompliance exists, develop an action plan to correct noncompliance, and
- d. establish a system to maintain compliance.

Environmental Policy (cont.)



Commitment to comply...environmental laws & regulations: (cont.)

- 4. Does an organization need to be in full compliance in order to conform with ISO 14001? NO
- A continued pattern of noncompliance may demonstrate a lack of a "system to maintain compliance".
- 6. Include voluntary guidelines.

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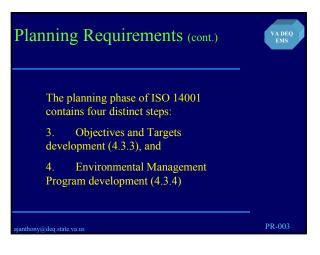
Document and implement: Executive level manager must sign the Environmental Policy statement. Document control must be utilized.



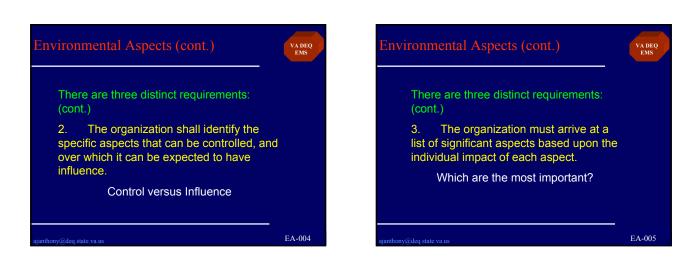






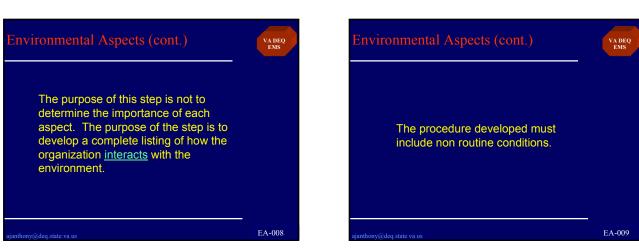


Planning Requirements (cont.) **Environmental Aspects** The four step process may cause the **ENVIRONMENTAL** Environmental Policy (4.2) statement to **ASPECTS (4.3.1)** be an iterative process. Don't view this possibility as an impediment. It is just a opportunity to strengthen the Environmental Policy statement. PR-004 EA-001 There are three distinct requirements: The organization must determine its The organization must identify environmental aspects and then the environmental aspects of its arrive at a list of the most important products, services and/or activities. or significant aspects. How does it interact with environment? EA-002 EA-003

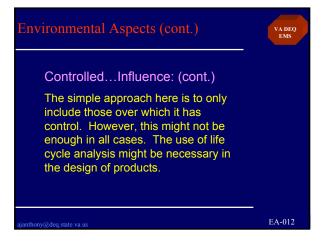


Environmental Aspects (cont.) Identify Environmental Aspects Potential list of environmental aspects: 1. releases of material to the air, water and/or soil; 2. disposal of wastes; 3. energy and natural resource consumption; EA-006

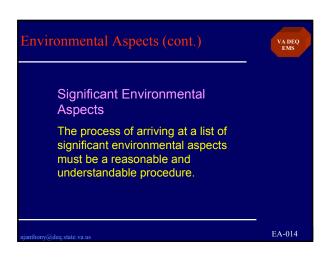


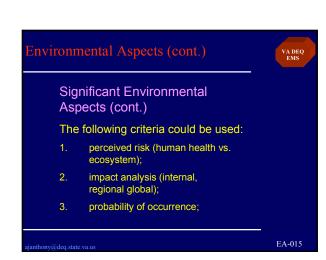








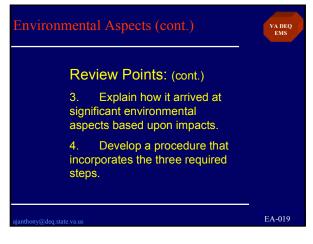


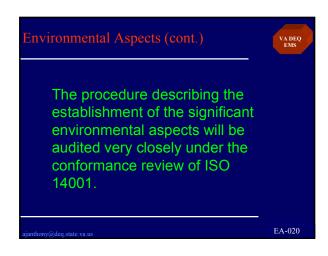




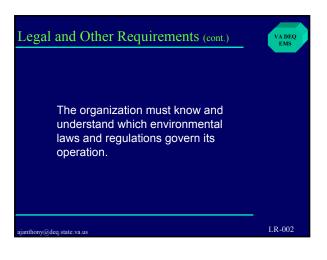


Review Points: 1. Organization must demonstrate that it understands how it interacts with the environment. 2. Explain its position on "control vs. Influence".











Legal and Other Requirements (cont.) Legal and Other Requirements (cont.) Additional Point: Three requirements: (cont.) If the organization voluntarily subscribes to any environmental Demonstrate that it keeps up to guidelines and/or requirements the date on the environmental laws, regulations and requirements. preceding three points must be followed. LR-004 LR-005 anthony@deq.state.va.us **Environmental Objectives and Targets** Legal and Other Requirements (cont.) This section does not contain the word "document" in the language of **ENVIRONMENTAL** the standard. However, the only **OBJECTIVES AND** practical manner to demonstrate conformance is to assemble in one **TARGETS (4.3.3)**

place a complete list and copies of

the referenced material.



EOT-001

LR-006

Environmental Objectives and Targets (cont.)

VA DEQ EMS

Environmental Objectives and Targets (cont.)



Once these "goals" have been established detailed workplans and schedules need to be established to arrive at the "goals". The detailed workplans and schedules are known as the Environmental Targets.

ISO 14001 requires that Environmental Objectives and Targets be quantitative rather than qualitative. In addition every level of the organization must be examined for inclusion in the Environmental Targets.

Environmental Objectives and Targets (cont.)



Environmental Objectives and Targets (cont.)



ISO 14001 also requires that the **Environmental Objectives and** Targets be documented.

There are four distinct content requirements for the development of the Environmental Objectives and Targets:

Organization must consider the material developed in the Legal and Other Requirements (4.3.2) section.

EOT-007

Environmental Objectives and Targets (cont.)



EOT-006

four...content requirements... (cont.)

- The organization must utilize the list of significant environmental aspects previously developed.
- The organization must evaluate the prevention of pollution commitment include in the Environmental Policy statement.

Environmental Objectives and Targets (cont.)



four...content requirements... (cont.)

The organization must ensure that the views of interested parties are considered in the process of developing the Environmental Objectives.

Environmental Objectives and Targets (cont.)

Legal and Other Requirements



Significant Environmental Aspects

Environmental Objectives and Targets



The organization must evaluate every A reasonable approach here might be to develop significant environmental aspect for an objective for all the applicable environmental inclusion as an Environmental Objective. If laws and regulations and their corresponding a significant environmental aspect is not carried forward into an objective the organization must provide a plausible and rational explanation.

Technology or Financial Limitations

(cont.)

requirements. Once compliance with a certain requirement is obtained the associated target could be set to a maintenance level of activity.

Environmental Objectives and Targets (cont.)



Environmental Objectives and Targets (cont.)

Interested Parties



Prevention of Pollution

An organization must evaluate the application of prevention of pollution techniques in the development of Environmental Targets. If the prevention of pollution approaches evaluated are not cost effective they do not need to be employed in a specific case.



The organization will need to develop and maintain a process for accepting, evaluating and addressing outside comments.

Environmental Management Programs



EMP-001

PROGRAMS (4.3.4)

ENVIRONMENTAL MANAGEMENT

Environmental Management Programs (cont.)



This section of ISO 14001 requires four distinct steps:

- The organization must demonstrate that it has established a management program for achieving its objectives and targets.
- Assigned responsibility at all appropriate levels.

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EMP-002

Environmental Management Programs (cont.)

VA DEQ EMS

This section of ISO 14001 requires four distinct steps: (cont.)

- 3. The organization must specify time frames and mechanisms needed.
- 4. The organization must employ "continual improvement" when appropriate.

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EMP-003

Environmental Management Programs (cont.)



This section of the standard completes the "PLANNING PROCESS" of ISO 14001. The planning process contained the following elements:

- 1. Environmental Aspects,
- 2. Legal and Other Requirements,
- 3. Objectives and Targets, and
- 4. Management Programs

Now it is time to move to Implementation!

Implementation and Operation



IMPLEMENTATION AND OPERATION (4.4)

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O-001

Implementation and Operation (cont.)



EMP-004

Section 4.4 of the standard contains the overall requirements for the organizational and operational roles and structures of the ISO 14001 environmental management system.

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IO-002

Implementation and Operation (cont.)



The major topics within the Implementation and Operation heading are:

- A. Structure and Responsibility (4.4.1)
 - Who does what?
- B. Training, Awareness and Competence (4.4.2)

Who needs to be trained?

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Implementation and Operation (cont.)



The major topics within the Implementation and Operation heading are: (cont.)

- C. Communication (4.4.3)
 - What communication system needs to be established?
- D. Environmental Management System

Documentation (4.4.4)

What level of documentation is needed?

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IO-004

Implementation and Operation (cont.) The major topics within the Implementation and Operation heading are: (cont.) E. Document Control (4.4.5) How do you keep current and accurate documents?

F. Operational Control (4.4.6)

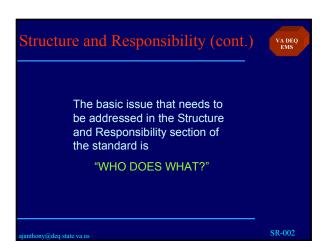
How do you insure that the operations are controlled properly?

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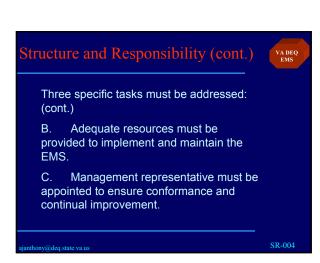
Implementation and Operation (cont.) The major topics within the Implementation and Operation heading are: (cont.) G. Emergency Preparedness and Response (4.4.7) How do you plan and respond to emergency situations?

IO-006

Structure and Responsibility STRUCTURE AND RESPONSIBILITY (4.4.1) sjanthony@deq.state.va.us

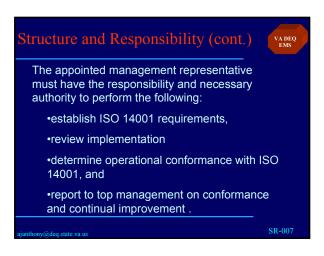




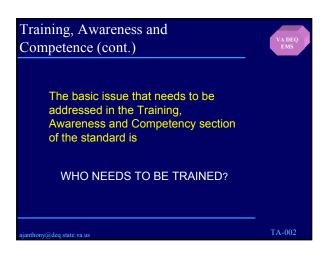


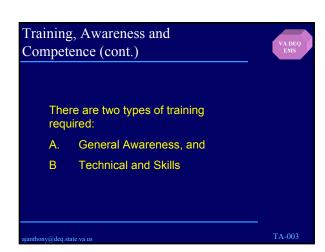
Everyone's role with respect to the EMS must be documented and communicated -- In other words every member of the organization must recognize and understand their role.



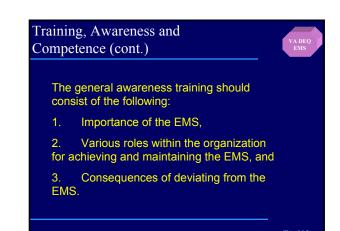




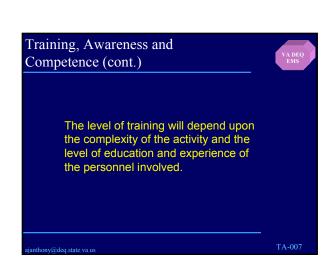










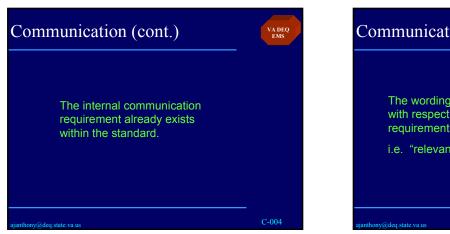






Communication (cont.) The basic issue that needs to be addressed in the Communication section of the standard is WHAT COMMUNICATION SYSTEM NEEDS TO BE ESTABLISHED?



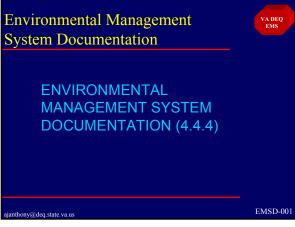




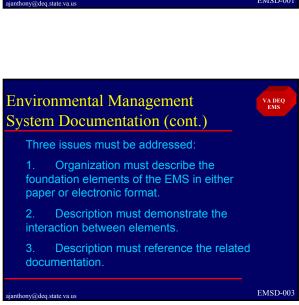


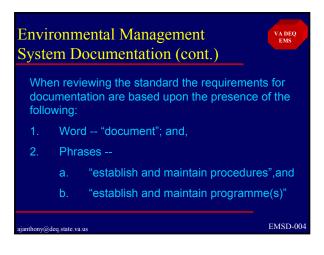


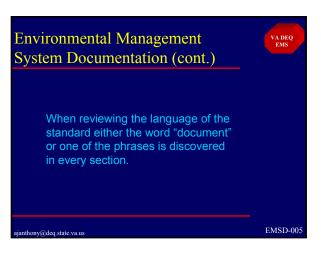












Environmental Management System Documentation (cont.)

VA DEQ EMS

The standard is silent on the form of the documentation. The development of an environmental management system manual is one possible approach.

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EMSD-006

Environmental Management System Documentation (cont.)

VA DEQ EMS

One possible format for the EMS manual:

- A. Planning (4.2 and 4.3.1 through 4.3.4)
- B. Program Overview (4.4.1 through 4.4.7 and 4.5.1 through 4.5.4)
- C. Management Review (4.6)

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EMSD-007

Environmental Management System Documentation (cont.)



Planning section of the EMS manual would include the development of the environmental policy, significant environmental aspect, objectives and targets and the workplans and timelines for the objectives and targets.

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EMSD-008

Environmental Management System Documentation (cont.)



Environmental Management Program Overview section of the manual would include the structure and responsibility charts and the procedures and evidence required by sections 4.4 and 4.5 of the standard.

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EMSD-009

Environmental Management System Documentation (cont.)



The Management Review section of the EMS manual would contain the records of the review by top management.

EMSD-010

Environmental Management System Documentation (cont.)



The potential benefits to this approach are that it ties together the vision and goals of the organization in the first section of the manual. The second section of the manual contains the necessary procedures and evidence to support the vision and goals. The final section of the manual contains the record of review by top management with respect to the vision and goals.

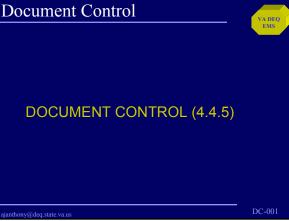
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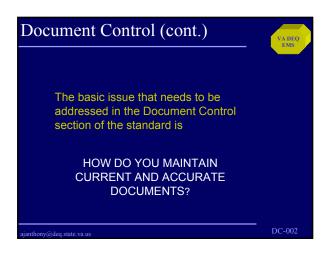
EMSD-011

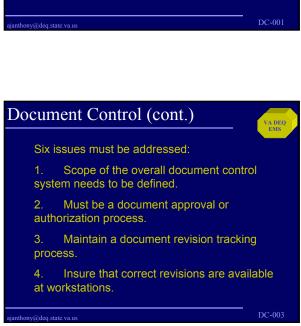
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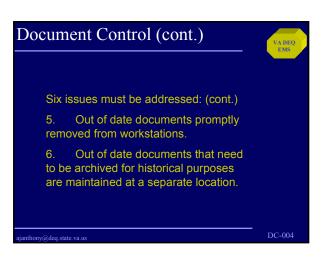
Environmental Management System Documentation (cont.) The EMS manual should be kept as simple and streamlined as possible. Do not create a collection of documents more complicated than necessary to meet the requirements of this section of the standard

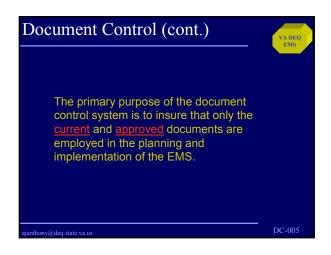
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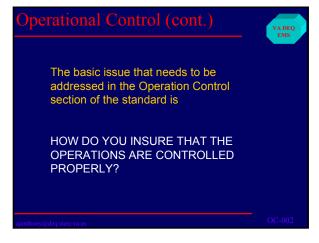




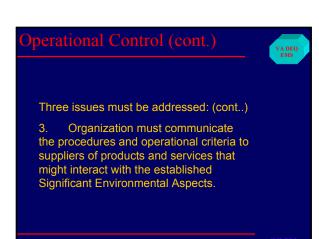




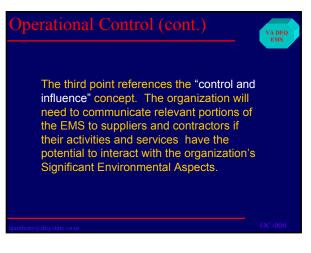
Operational Control OPERATIONAL CONTROL (4.4.6) ajanthony@deq.state.va.us OC-001











Emergency Preparedness and Response



EMERGENCY PREPAREDNESS AND RESPONSE (4.4.7)

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ER-001

Emergency Preparedness and Response (cont.)



The basic issue that needs to be addressed in the Emergency Preparedness and Response section is

HOW DO PLAN AND RESPOND TO EMERGENCY SITUATIONS?

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ER-002

Emergency Preparedness and Response (cont.)



Three specific issues must be addressed:

- 1. Organization must identify the possibilities for accidents and emergency situations.
- 2. Organization must prepare emergency preparedness and response procedures.
- 3. Organization should evaluate and revise as appropriate the procedures.

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ER-003

Emergency Preparedness and Response (cont.)



NOTE: The Emergency Preparedness and Response section of the standard applies to the entire organization, not just the Significant Environmental Aspects.

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ER-004

Emergency Preparedness and Response (cont.)



Potential process steps:

- inventorying hazardous substances
- identifying potential accident scenarios
- modeling potential distribution patterns
- •evaluating potential impacts

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Emergency Preparedness and Response (cont.)



Once the preceding steps have been completed the organization should develop procedures to potentially eliminate the incidents.

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ER-006

Emergency Preparedness and Response (cont.)

VA DEQ EMS

Organization should also develop procedures to respond to the potential accidents.

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ER-007

Emergency Preparedness and Response (cont.)



The emergency response procedures should be tested periodically.

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ER-008

Checking and Corrective Action



CHECKING AND CORRECTIVE ACTION (4.5)

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CC-001

Checking and Corrective Action (cont.)



Section 4.5 of the standard contains the overall requirements for the checking (data collection) and corrective action (assessment) requirements of the ISO 14001 environmental management system.

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CC-002

Checking and Corrective Action (cont.)



The major topics within the Checking and Corrective Action heading are:

1. Monitoring and Measurement (4.5.1)

How does the organization evaluate the key characteristics of the EMS with respect to conformance with both the Environmental Objectives and Targets and environmental laws and regulations?

hony@deg state value CC-003

Checking and Corrective Action (cont.)



The major topics within the Checking and Corrective Action heading are: (cont.)

2. Nonconformance and Corrective and Preventative Action (4.5.2)

How does the organization handle nonconformance with respect to the EMS?

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CC-004

Checking and Corrective Action (cont.)



The major topics within the Checking and Corrective Action heading are:(cont.)

Records (4.5.3)

How does the organization handle records associated with the EMS?

CC-005

Checking and Corrective Action (cont.)



The major topics within the Checking and Corrective Action heading are: (cont.)

Environmental Management System Audit (4.5.4)

> How does the organization conduct environmental audits of the EMS?

CC-006

Monitoring and Measuring



MONITORING AND MEASUREMENT (4.5.1)

Monitoring and Measuring (cont.) VADEQ



Section 4.5.1 of the standard contains the requirements for monitoring and measurement of those activities related to the significant environmental aspects of ISO 14001.

Monitoring and Measuring (cont.) VADEQ



The basic issue that needs to be addressed in the monitoring and measurement section is

HOW DOES AN ORGANIZATION EVALUATE THE KEY CHARACTERISTICS OF THE EMS WITH RESPECT TO CONFORMANCE WITH THE ENVIRONMENTAL OBJECTIVES AND TARGETS AND COMPLIANCE WITH **ENVIRONMENTAL LAWS AND REGULATIONS?**

Monitoring and Measuring (cont.) VADEQ

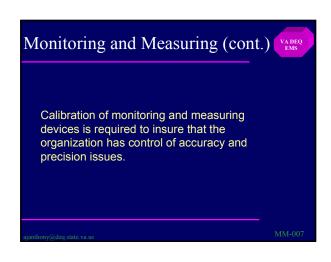


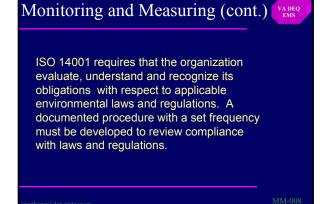
Three specific issues must be addressed:

- Organization must establish a documented procedure to monitor and measure on a set frequency the activities that are related to the significant environmental aspects.
- Organization must ensure that the devices used for monitor and measure are calibrated accurately.

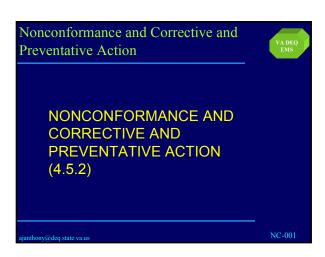
Monitoring and Measuring (cont.) Three specific issues must be addressed: (cont.) 3. Organization must establish a documented procedure for evaluating on a set frequency compliance with environmental laws and regulations.











Nonconformance and Corrective and Preventative Action (cont.)

VA DEQ EMS

Section 4.5.2 of the standard contains the requirements for addressing, correcting and preventing nonconformance within the environmental management system.

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NC-002

Nonconformance and Corrective and Preventative Action (cont.)



The basic issue that needs to be addressed in the nonconformance and corrective and preventative section is

HOW DOES THE ORGANIZATION HANDLE NONCONFORMANCE WITH RESPECT TO THE EMS?

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NC-003

Nonconformance and Corrective and Preventative Action (cont.)



Three specific issues must be addressed:

- 1. Organization must develop a procedure for investigating nonconformance from the established EMS (include responsibility and authority).
- 2. Organization must take the necessary actions to mitigate impacts.
- 3. Organization will need to modify existing procedures as preventative action.

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NC-004

Nonconformance and Corrective and Preventative Action (cont.)



- 4.5.2 is aimed at the following process:
- 1. document the nonconformance;
- 2. notify and mitigate;
- 3. investigate the cause;
- 4. prevent reoccurrence;
- 5. modify existing procedure (preventative); and,
- 6. communicate changed procedure.

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NC-005

Nonconformance and Corrective and Preventative Action (cont.)



Where does the evidence of a nonconformance originate?

- 1. internal reporting system of the EMS, and
- external sources such as suppliers, end users and stakeholders.

There must be recognition for the potential of external communication with respect to nonconformance.

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NC-006

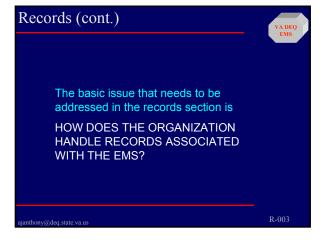
Records



RECORDS (4.5.3)

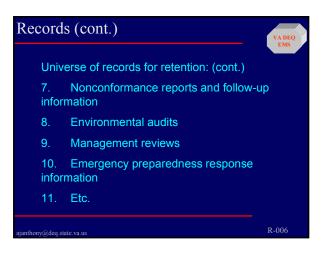
R-001

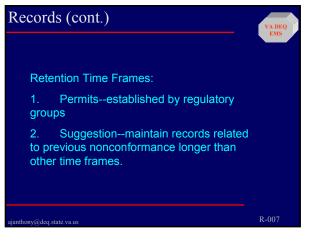


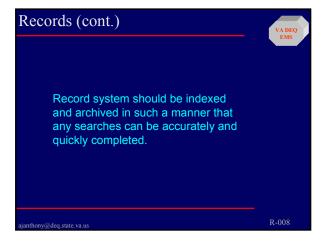


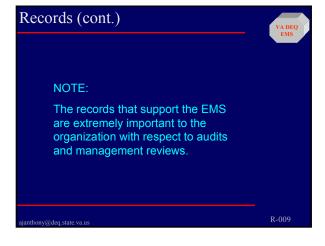


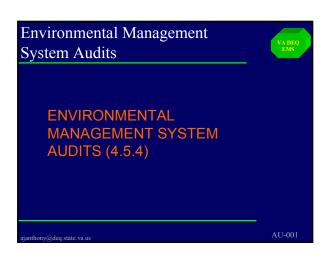


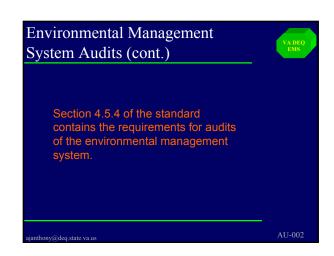


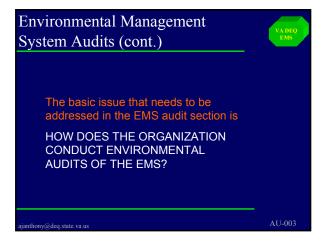














Environmental Management System Audits (cont.) Four specific issues must be addressed: (cont.)

4. Audit reports must contain recommendations for correcting any nonconformance discovered.

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AU-005

Environmental Management System Audits (cont.)



Frequency of audits:

- 1. Mature systems -- once a year,
- 2. Implementation phase -- more frequent, and
- 3. Nonconformance areas -- more frequent.

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AU-006

Environmental Management System Audits (cont.)



Methodology requirements:

- 1. Determine conformance with requirements of ISO 14001, and
- 2. That the EMS has been managed as described in the Environmental Policy statement, the Environmental Objectives and Targets, and related work descriptions and procedures.

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AU-007

Management Review



MANAGEMENT REVIEW (4.6)

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MR-001

Management Review (cont.)



Section 4.6 of the standard contains the requirements for top management review of the EMS.

MR-002

Management Review (cont.)



The basic issue that needs to be addressed in the management review section is

WHAT MUST HAPPEN DURING THE MANAGEMENT REVIEW?

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MR-003

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Management Review (cont.) Three specific issues must be addressed: 1. Top management must conduct reviews of the EMS on a set frequency. 2. Top management must evaluate the existing information on the EMS to determine if it is adequate. 3. Top management must evaluate the need for modifying the Environmental Policy and the Environmental Objectives.



